**CSC2720** **Assignment-2 [100 Points]**

**Due Date : 03/03/2021 @ 11.00pm ET.**

Question: **In java Design a Data Structure MyStack that supports stack operations like push(), pop() and getMin() which should return minimum element from the Stack.**

Note : If required make your own assumptions and state them clearly as comments in your Java program.

**Random Example**:

Consider the following SpecialStack

16 --> TOP

15

29

19

18

When getMin() is called it should return 15, which is the minimum element in the current stack.

If we do pop two times on stack, the stack becomes

29 --> TOP

19

18

When getMin() is called, it should return 18 which is the minimum in the **current** stack.

**Helper Code in next Page**

import java.util.Stack;

// A user defined stack that supports getMin() in

// addition to push() and pop()

class MyStack

{

// Your Code Here

// Prints minimum element of MyStack

void getMin()

{

// Your Code Here

}

// prints top element of MyStack

// Your Code Here

// Removes the top element from MyStack

// Your Code Here

// Minimum will change as the minimum element

// of the stack is being removed.

// Your Code Here

// Insert new number into MyStack

// Your Code Here

// If new number is less than original minimum

// Your Code Here

// Driver Code

public static void main(String[] args)

{ MyStack s = new MyStack();

s.push(3);

s.push(5);

s.getMin();

s.push(2);

s.push(1);

s.getMin();

s.pop();

s.getMin();

s.pop();

s.peek();

}

}